

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently amended): A system for assisting in the regeneration of depollution means ~~(1)~~ associated with oxidation catalyst-forming means ~~(2)~~, and integrated in an exhaust line ~~(3)~~ of a motor vehicle diesel engine ~~(4)~~ and in which the engine ~~(4)~~ is associated with common manifold means ~~(7)~~ for feeding the cylinders of the engine with fuel, and adapted at constant torque to implement a regeneration strategy by injecting fuel into the cylinders in at least one post-injection operation, the system ~~being characterized in that it comprises~~ comprising:

- detector means ~~(8)~~ for detecting a regeneration request ~~(req.RG)~~ and thus a request for post-injection;
- detector means ~~(9)~~ for detecting a state of the foot being raised on the vehicle accelerator;
- temperature acquisition means ~~(11)~~ for acquiring the temperature downstream from the catalyst-forming means ~~(2)~~;
- means ~~(8)~~ for determining a maximum quantity of fuel to be injected in the post-injection operations during the period of returning to idling following the foot being raised on the accelerator, and on the basis of said temperature; and
- means ~~(7, 8)~~ for immediately interrupting the or each post-injection operation as soon as the quantity of fuel injected has reached the predetermined maximum quantity.

2. (Currently amended): A system according to claim 1, ~~characterized in that~~ wherein the depollution means ~~(1)~~ comprise a particle filter.

3. (Currently amended): A system according to claim 1 ~~or claim 2, characterized in that~~, wherein the depollution means ~~(1)~~ comprise

a NOx trap.

4. (Currently amended): A system according to ~~any preceding claim, characterized in that~~claim 1, wherein the fuel includes an additive for being deposited, together with the particles with which it is mixed, on the depollution means ~~(1)~~ in order to facilitate regeneration thereof.

5. (Currently amended): A system according to ~~any one of claims~~claim 1 to 3, characterized in that, wherein the fuel includes an additive forming a NOx trap.

6. (Currently amended): A system according to ~~any preceding claim, characterized in that~~1, wherein the engine is associated with a turbocharger ~~(5, 6).~~.